

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. A chain block, comprising:

a drive motor and an at least one-stage transmission;

said drive motor having a motor shaft, said transmission having an input shaft, said motor shaft connected at a take-off side via a slip clutch to said transmission
5 input shaft;

said transmission having a first gear mounted in a housing via pivot bearings; and

wherein said transmission input shaft is mounted floating in said pivot bearings in order to affect the frictional force of said slip clutch.

2. The chain block of claim 1 wherein said slip clutch is arranged near said first gear on said transmission input shaft and thrusts against one of said pivot bearings.

3. The chain block of claim 2 wherein said transmission input shaft has a pinion that is configured in a spiral gearing so that, during operation of the chain block, the axial force produced by said spiral gearing leads to a reduction in frictional force of said slip clutch in a lengthwise direction of said transmission input shaft.

4. The chain block of claim 3 wherein the axial force produced by said spiral gearing results in an increasing of the frictional force of said slip clutch at least when said chain block is hoisting.

5. The chain block of claim 1 wherein said transmission input shaft has a pinion that is configured in a spiral gearing so that, during operation of the chain block, the axial force produced by said spiral gearing leads to a reduction in frictional force of said slip clutch in a lengthwise direction of said transmission input shaft.

6. The chain block of claim 5 wherein the axial force produced by said spiral gearing results in an increasing of the frictional force of said slip clutch at least when said chain block is hoisting.

7. The chain block of claim 1 wherein one end of said transmission input shaft is thrust against said second pivot bearing across a spring element in order to activate said slip clutch .
8. The chain block of claim 7 wherein said spring element comprises flat spring elements.
9. The chain block of claim 8 wherein pretensioning of said spring element is adjusted by said pivot bearing being adapted to travel lengthwise in said housing and be moved in a direction of said spring element by a set screw thrusting against said housing.
10. The chain block of claim 9 wherein said brake is spaced from said housing at a distance established by said set screw.
11. The chain block of claim 7 wherein pretensioning of said spring element is adjusted by said pivot bearing being adapted to travel lengthwise in said housing and be moved in a direction of said spring element by a set screw thrusting against said housing.
12. The chain block of claim 11 wherein said brake is spaced from said housing at a distance established by said set screw.
13. The chain block of claim 1 wherein said brake is arranged at an end of said transmission input shaft away from said slip clutch and acts on said transmission input shaft.
14. The chain block of claim 13 wherein said brake is configured as an electromagnetically operated disk brake.
15. The chain block of claim 14 wherein said slip clutch comprises a pressure disk that thrusts against said first pivot bearing and a clutch disk with a clutch lining, wherein said transmission input shaft thrusts against said clutch disk.

16. The chain block of claim 1 wherein said slip clutch comprises a pressure disk that thrusts against said first pivot bearing and a clutch disk with a clutch lining, wherein said transmission input shaft thrusts against said clutch disk.
17. The chain block of claim 2 wherein said slip clutch comprises a pressure disk that thrusts against said first pivot bearing and a clutch disk with a clutch lining, wherein said transmission input shaft thrusts against said clutch disk.
18. The chain block of claim 3 wherein said slip clutch comprises a pressure disk that thrusts against said first pivot bearing and a clutch disk with a clutch lining, wherein said transmission input shaft thrusts against said clutch disk.
19. The chain block of claim 6 wherein said slip clutch comprises a pressure disk that thrusts against said first pivot bearing and a clutch disk with a clutch lining, wherein said transmission input shaft thrusts against said clutch disk.
20. The chain block of claim 7 wherein said slip clutch comprises a pressure disk that thrusts against said first pivot bearing and a clutch disk with a clutch lining, wherein said transmission input shaft thrusts against said clutch disk.
21. The chain block of claim 8 wherein said slip clutch comprises a pressure disk that thrusts against said first pivot bearing and a clutch disk with a clutch lining, wherein said transmission input shaft thrusts against said clutch disk.
22. The chain block of claim 9 wherein said slip clutch comprises a pressure disk that thrusts against said first pivot bearing and a clutch disk with a clutch lining, wherein said transmission input shaft thrusts against said clutch disk.